

Motor drive application: EiceDRIVER™ 1EDN8550B and XENSIV™ DPS368



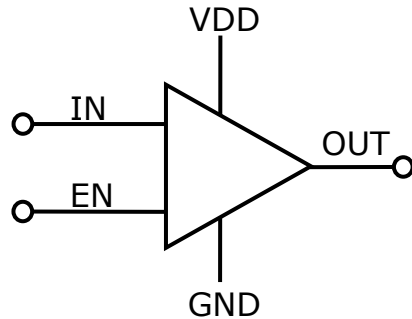
인피니언 전력반도체 솔루션
가상부스에 오신 걸 환영합니다!



Gate Driver IC with Truly Differential Inputs

Robust Solution against Ground Shifts

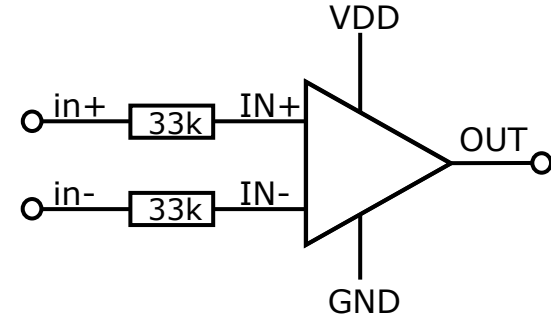
Conventional Low-side Gate-Driver IC



Gate-Driver IC GND-Shift may affect input level interpretation

Risk of false triggering

Low-Side Gate-Driver IC with Truly Differential Inputs



Robust against Gate-Driver GND-Shift
 $\pm 150 V_{pk}$ dynamic and $\pm 70 V$ static

Robust Operation

1EDN7550 and 1EDN8550

GND-Shift Problems Solved in Small SOT-23



Challenge

Parasitic
Ground
Inductance

Parasitic
Source
Inductance

Application Examples

- › Long distance between controller IC & gate-driver IC
- › 1- and 2-layer PCBs

- Hard-switching Applications:
- › Boost-PFC with Kelvin-Source MOSFETs
 - › Synchronous Rectification

1EDNx550 Advantages

Increased design
flexibility

Cost Effective

High Power Density

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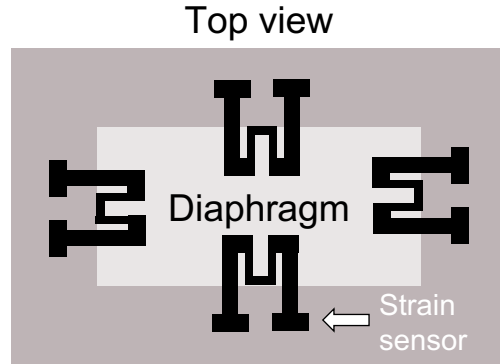


XENSIV™ pressure sensor for air flow metering

Robust solution against environment



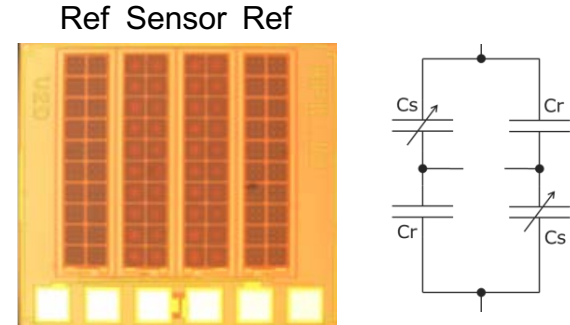
Conventional piezo-resistive bridge



Air flow metering accuracy
affected by sensor's intrinsic noise

Risk of false alarm

Capacitive bridge



Intrinsic low noise
and robust against environment

Robust Operation

Challenge

High sensitivity
Low noise

Environmental
protection
Temperature
stability

Application Examples

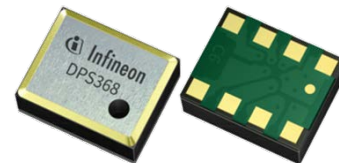
- › Smart dust filters
- › Smart inhaler

- › Vacuum cleaner obstructor alarm

DPS368 Advantages

High sensitivity
Low intrinsic
pressure noise
Cost Effective
Small form factor

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